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FIGURE 1A**Amino Acid Sequences 12.12****12.12 Light chain:**

leader: MALPAQLLGLIMLWVSGSSG

variable:

DRVMTQSPSLSTVTPGEPARISCRSSQSILYSGNGVNVLWYLQKPGQSPQVLISLGNSR
ASGVFDRFGSGSGSGTDFVLKISRVEADVGVYYCIMQARQTFFTFGPAGTKVDIR

constant:

RTVAAPSVFIFPPDDEQLKRGTAASVVCLNNFYPRENLKVQWKVDNALQSGNSQESVTEQ
DSKDGTYSLSSTLTSKADYEKKVYACEVTHQGLSSPVTKSFNRGEC***FIGURE 1B****12.12 Heavy chain:**

leader: MEFGLSWYFILVATLKGVQC

variable:

QVQLVYESGGGVVOPGRSLRLSCAASGFTSSSYCHAWVRQAFGRGLEWWVAVISYHEENRY
HADSVKGRFTISKDNISKIVLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWQQGTLVTV
SS

constant:

ASTKGPSVFFPLAPAKSTSGGTAALGCLVKDYFPEPVTVWSWEGALTSGVHTFPALIQS
SGLYSLSSVVTVFSSSLIGTQTYICNVNHPSENTRVKVDRVEPKCDRTHTCPPCPAPELL
GGPSEVFLFPPKPKDTLMISRTEVTVCVVDVSHEDPEVKFNWYVDGVEVHNAAKTKPREE
QYNSTYRVVVEVLTVLHQDWLNGKEYRKCKVSKNALKAPIEKTISRAKGQPREPQVYTLP
SREEMTKNQVSLTCLVKGFYPSDIAVEWEEQNGQPENNYKTPFVLDSDGSFFLYSKLTV
DKSRWQQGNVFSC5VMHEALHNHYTQKSLSLEPCK*
or

alternative constant region:

ASTKGPSVFFPLAPAKSTSGGTAALGCLVKDYFPEPVTVWSWEGALTSGVHTFPALIQS
SGLYSLSSVVTVFSSSLIGTQTYICNVNHPSENTRVKVDRVEPKCDRTHTCPPCPAPELL
GGPSEVFLFPPKPKDTLMISRTEVTVCVVDVSHEDPEVKFNWYVDGVEVHNAAKTKPREE
QYNSTYRVVVEVLTVLHQDWLNGKEYRKCKVSKNALKAPIEKTISRAKGQPREPQVYTLP
SREEMTKNQVSLTCLVKGFYPSDIAVEWEEQNGQPENNYKTPFVLDSDGSFFLYSKLTV
DKSRWQQGNVFSC5VMHEALHNHYTQKSLSLEPCK*

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FIGURE 2A

DNA sequence of Light chain of 12.12

FIGURE 2B

DNA sequence of Heavy chain of 12.12 (including introns)

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FIGURE 3A**Amino Acid Sequence for 5.9
5.9 Light chain:**

leader: MALLAQLLGLLMLWVPGSSG
variable:
 AIVMTQPPFLSPVTLGQPASISCRBQS LVHSDGNTYLNWLQQRPGQPFPRLLIVKFPRR
 LSGVPPRFSGGGAGTDFTLKIERVEADVGVVYCMQVTQFPHTFGOGTRLEIK
constant: RTVAAPSVFIFPSDNEQLKSGTAGVCLLNNFYPREAKVQWKVDNALQSG
 NSQESEVTEQDSKDSTYLSSTLTSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC*

FIGURE 3B**5.9 Heavy chain:**

leader: MGSTAYILALLLAVLQGVCA
variable: EVQLVQSGMELVKKPGEISLKISCKGSQVSFTSYWIGWVVRQMPQKGLEWMGI
 IYFGDADTRYRSPSFQGQVTIIRDKSISATYLQWSHLKRSDTAMYTCARGTAACRDYYXY
 YQMDVWGQGTWVTVSS

constant region:
 ASTKGPSVFPPLAPASKETSGGTAALGCLVKDYFPEPVTVSNNGALTSGVRTFPAAVLQS
 SGLYSLSSSVTVFSSSIQGTQTYICNVNPKPSNTKVDKRVEPKACDKTHTCPFCPAPELL
 GGPSPVFLPPPKEPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWVVDGVEVHNAKTKPREE
 QVNSTYRVVAVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTTSKAKGQPREGQVYTLPF
 SREEMTKNQVSILTCLVKGFYPSDIAVEWEANGQPEMVYKTPPVLDSDGSEFLYSGKLT
 DKERWQQGNVFSGSVMEALHNHYTQSLSLSPGK*

or alternative constant region:

ASTKGPSVFPPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSNNGALTSGVRTFPAAVLQS
 SGLYSLSSSVTVFSSSIQGTQTYICNVNPKPSNTKVDKRVEPKSCDKTHTCPFCPAPELL
 GGPSPVFLPPPKEPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWVVDGVEVHNAKTKPREE
 QVNSTYRVVAVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTTSKAKGQPREGQVYTLPF
 SREEMTKNQVSILTCLVKGFYPSDIAVEWEANGQPEMVYKTPPVLDSDGSEFLYSGKLT
 DKERWQQGNVFSGSVMEALHNHYTQSLSLSPGK

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FIGURE 4A**Coding sequence for short isoform of human CD40:**

1 atggttcgtc tgccctcgca glgogtcctc tggggcgcgc tgctgacccgc tgcctatcca
61 gaaacaccca ctgcattgcag agaaaaaacag tacctaataa acatgtcaggc ctgttcttgc
121 tgcacagccag gacagaaaact ggtgagtgac tgcacacaggc tcacgaaac ggaatgcctt
181 ccctgcggcg aaagcgaatt ccttagacacc tggaaacagag agacacacactg coaccagcac
241 aaaatacgcc accccaaacctt agggcttggc gtccagcaga agggcacccg agaaacagao
301 accatctgca ctgtgttgcaga aggttggcgtt tggtaatggcgtt aggttggcgtt ggggttgtt
361 ctgcaccgcgtt catgttgcgtt cggctttgggg gtcacaggcgtt ttgttacagg gggttttgtt
421 accatctgcgtt agccctgtcccc agtctggcgtt ttcaccaatgtt tgccatctgcgtt ttcgtaaaaaa
481 tgcacccctt ggacaaaggc cccaggatcg gctgagatgcgtt ctgggtggcgtt tcccoatcat
541 ctctggatc ctgtttgttgcataccatgtt gctggcgtt atcaaaaaagg tggccaaagaa
601 gccaaccaaataa

FIGURE 4B**Encoded short isoform of human CD40:**

1 mvrlplqcvl wgccllavhp eppiacrakq yllnsqccsi cqpgqkived clafstatacl
61 pggesefldt wnrethchqh kycdpnlgr vqqkglaold ttcacogwh ctseacescvt
121 lhrscspgsg vkkqlatgvsd ttcpcpvgt fsnvssafek chpwtrspgs aespqgdphh
181 lrdpvehphig aglyqkggqe aq

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FIGURE 4C

Coding sequence for long isoform of human CD40:

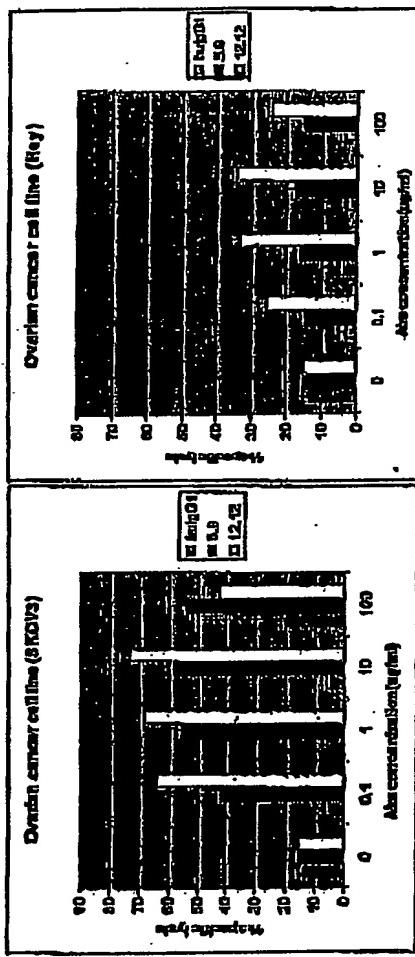
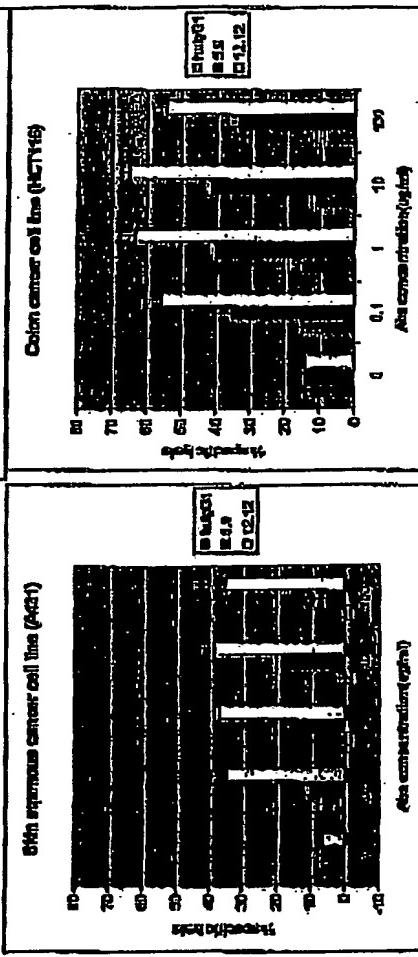
1 atggttgtc tgcgttcgtca gtgcgtccctc tggggctgtct tgctgtaccggc tgcctatcca
61 gaaccaccca ctcgtcgag agaaaaaacag tacataataa acagtcagtg ctgttcttg
121 tgcctggccat gacagaaaat ggtgtgtgtc tgcgttgttgc tgcgttgttgc
181 ctgtcggttgc aaatgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
241 aaatgttgttgc accccaaactt agggcttggc tgcgttgttgc tgcgttgttgc
301 accatgtgtca ctgtgtgtgtca aggtgtgtgtca tgcgttgttgc tgcgttgttgc
361 ctgtgtgtgtca tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
421 accatgtgtca agccctgtccc agtgcgttgttgc tgcgttgttgc tgcgttgttgc
481 tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
541 aatgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
601 atgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
661 aatgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
721 gatgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc
781 tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc tgcgttgttgc

FIGURE 4D

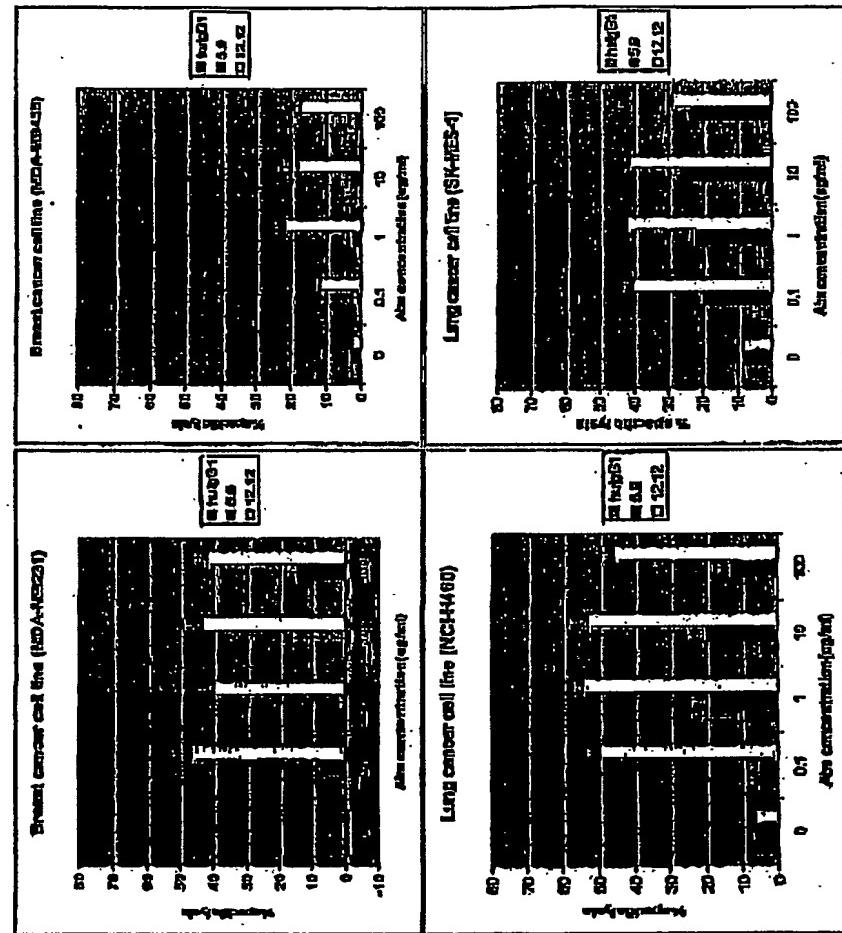
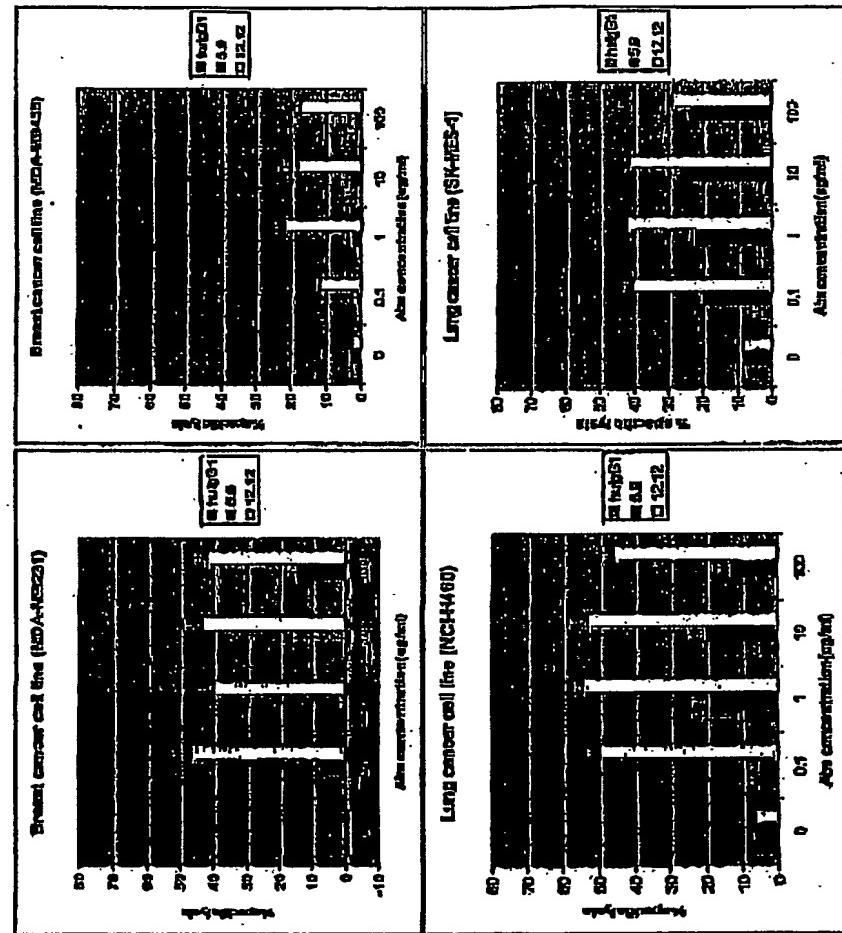
Encoded long isoform of human CD40:

1 mvrlplqcvl wgclltavhp epllacrekq yllnsqccsl cqpgqklvad ctfttatecl
61 pcgesefslt wnrlehhqh kycapnigl vqqkglsetd tlcseegwh ciseabesov
121 lhrcspgfg vkqlatgvad lceopovpf fsnvassafek chpwtsacelk dlwqqagln
181 ktdvvcpqd rlravvipi ifgilfalli lvflikkvak kptnkaphpk qepqelnspd
241 dpgsntaap vqellhgcpq vtqedgkesr lsqvqerq

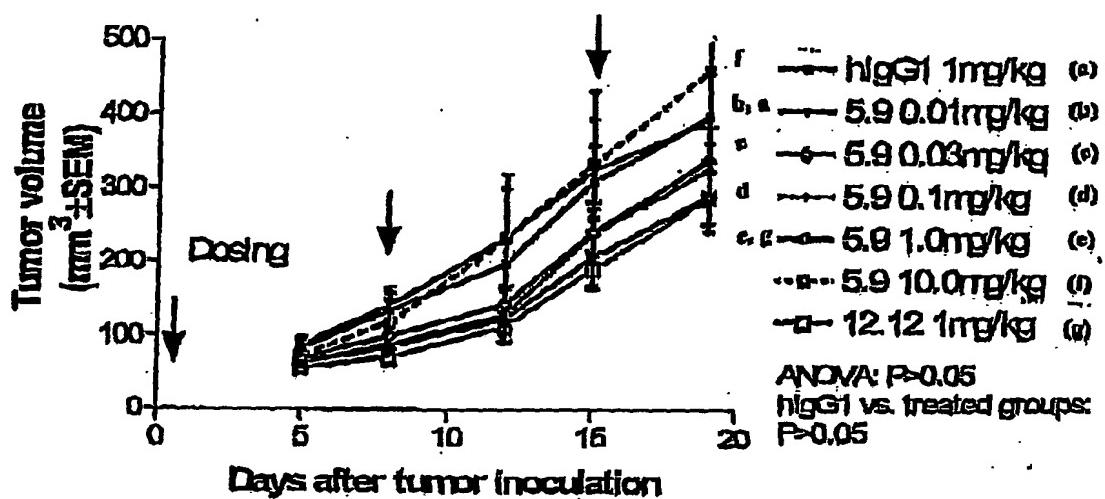
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FIGURE 5A**FIGURE 5B****FIGURE 5C****FIGURE 5D**

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FIGURE 6A**FIGURE 6B****FIGURE 6C****FIGURE 6D**

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FIGURE 7

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FIGURE 8

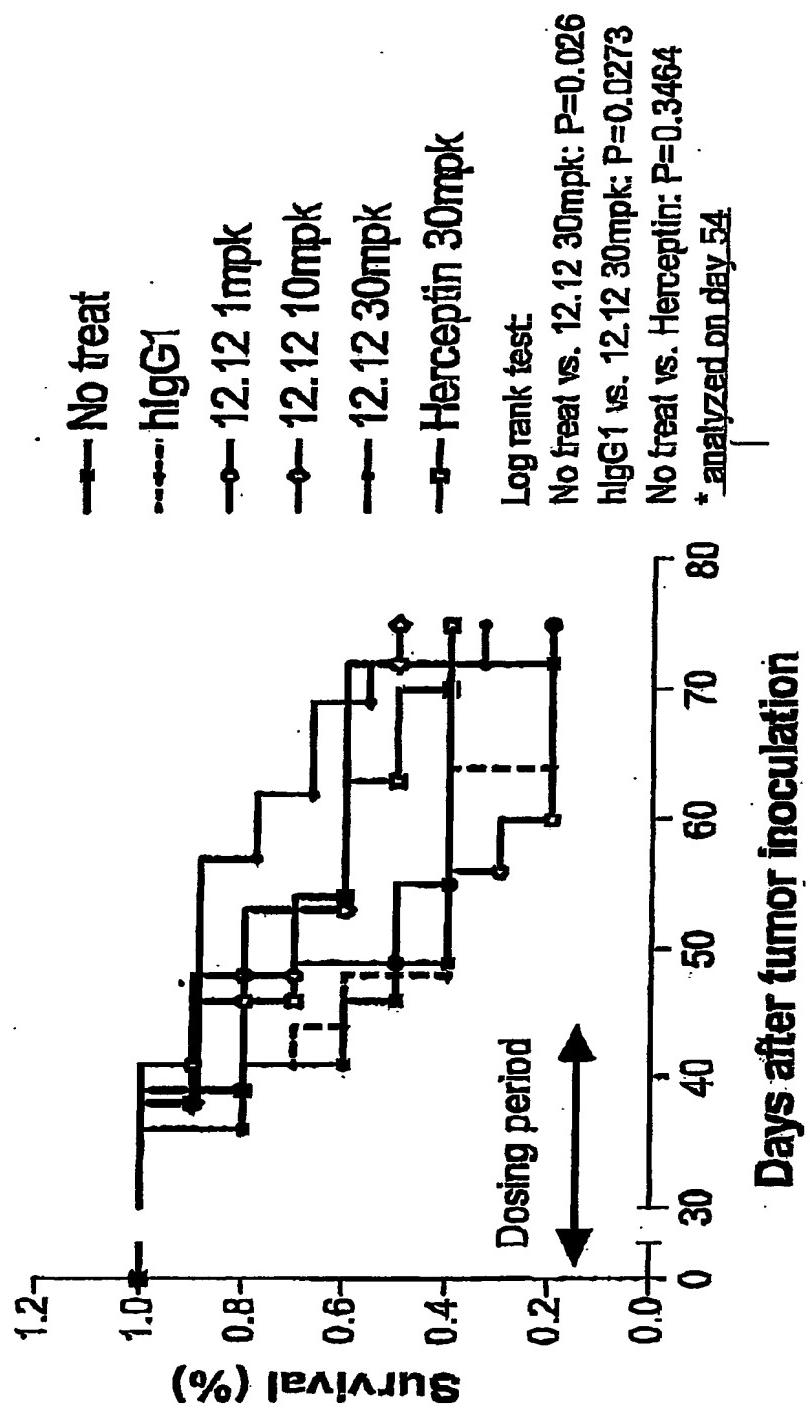
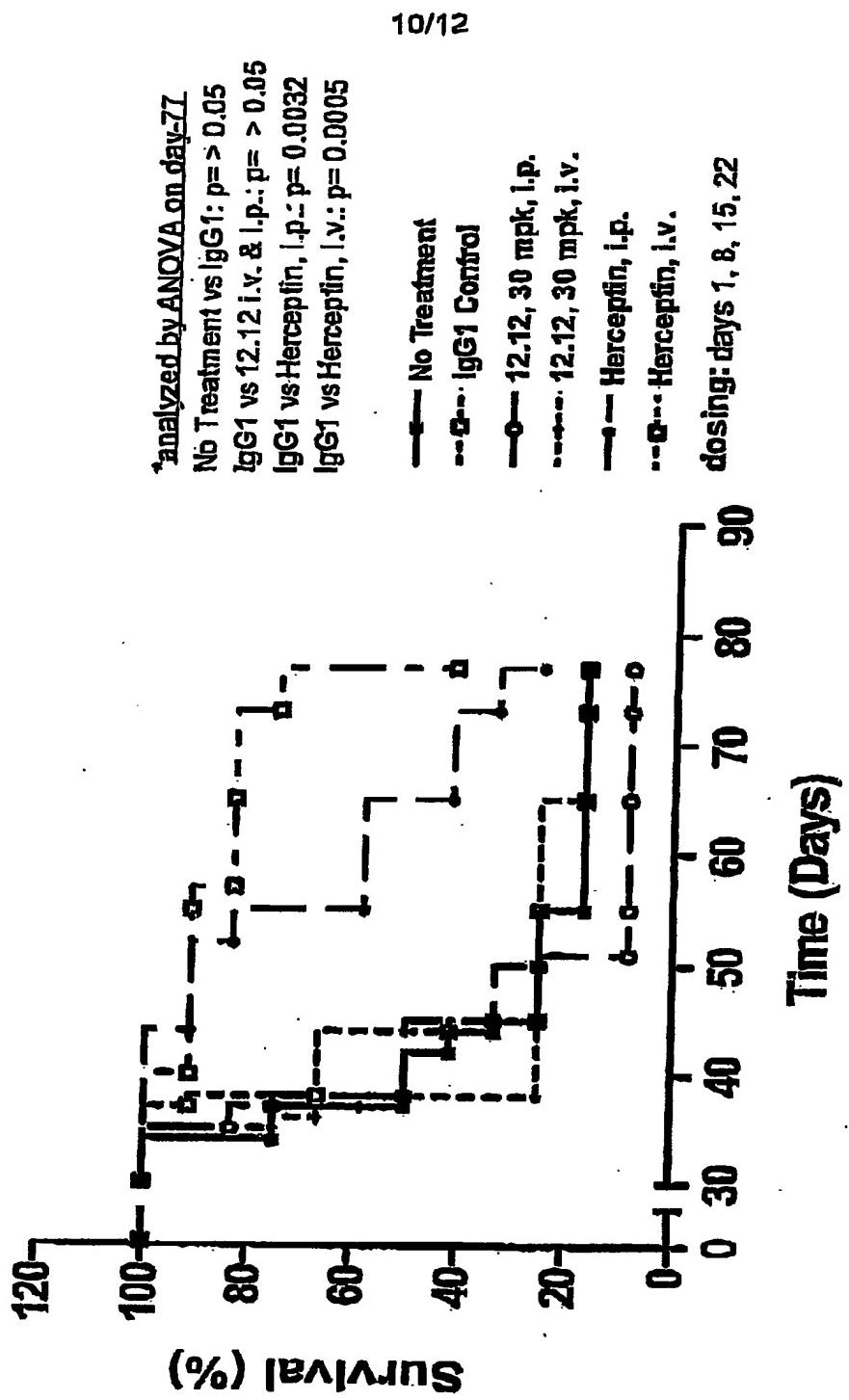
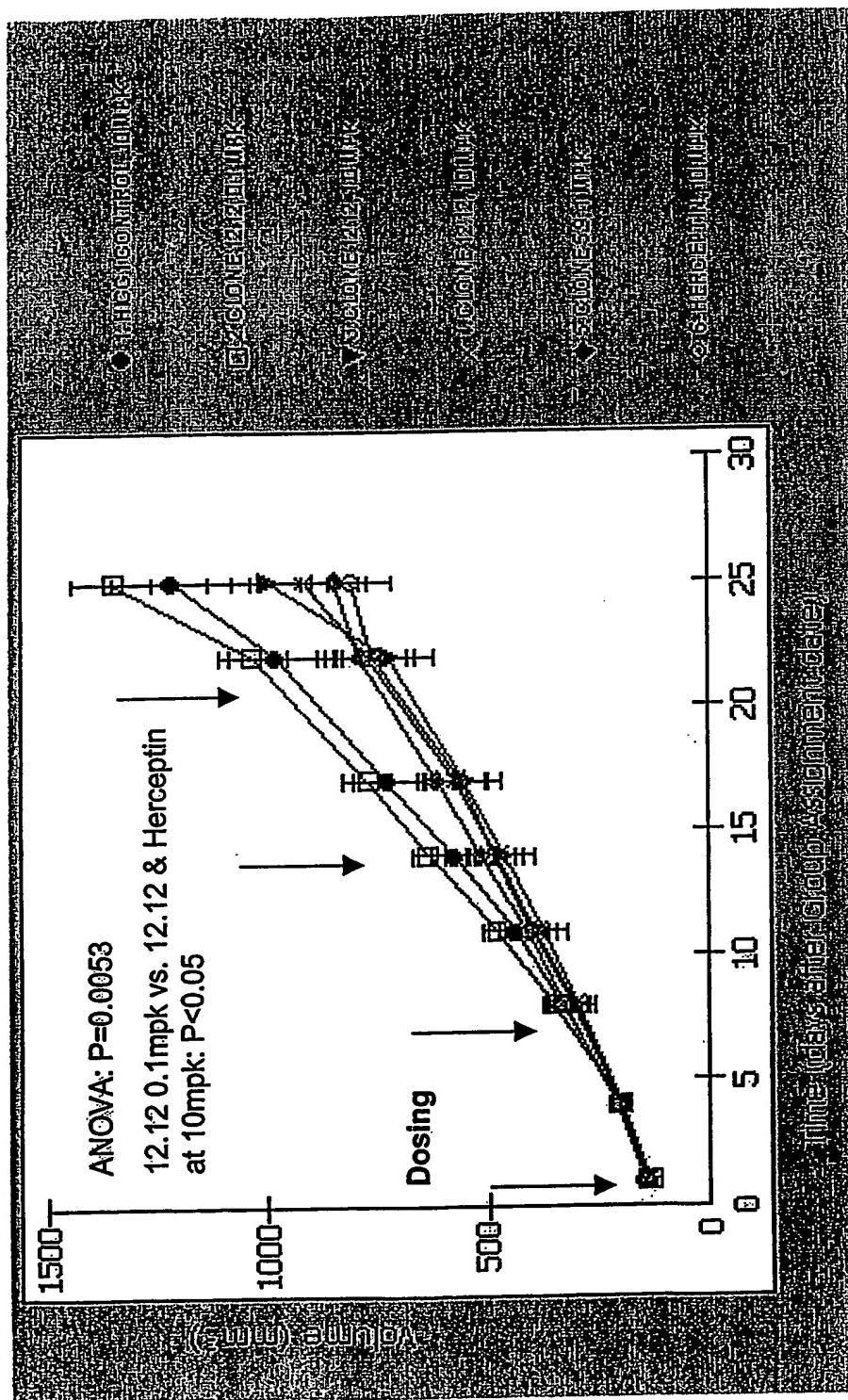


FIGURE 9



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FIGURE 10

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FIGURE 11